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Substitu	rte for form 1449A	/PTO		Complete if Known			
				Application Number	09/500,755		
INFO	RMATION	DISC	LOSURE	Filing Date	02/08/2000		
STA	TEMENT E	Y AP	PLICANT	First Named Inventor	Mehdi Asnaashari 2851		
				Group Art Unit			
	(use as many she	ets as ne	cessary)	Examiner Name	Namazi, Mehdi		
Sheet	1	of	6	Attorney Docket Number	38979-80US		

	U.S. PATENT DOCUMENTS									
	`	U.S. Patent Document			Date of Publications of	Pages, Columns, Line				
MC	A1	2003/0033471	A1	Lin et al.	02/13/2003					
1	A2	6,411,546	В1	Estakhri et al	06/05/2002					
	A3	6,397.314	ВТ	Estakhri et al.	05/28/2002					
	A4	6,393.513	B2	Estakhri et al.	05/21/2002					
_	A5	6,374.337	B1	Estakhri	04/16/2002					
	A6	6,279,114	B1	Toomba et al	08/21/2001					
	A7	6,279.069	Bi	Robinson et al.	08/21/2001					
	A8	8,272,810	B1	Katayama et al.	08/07/2001					
	A9	6,262,918	B1	Estakhri et al.	07/17/2001					
	A10	6,230,234		Estakhri et al	05/08/2001					
1	ATT	6.226.708	B1	McGoldrick et al.	05/01/2001					
	A12	6,223,308	B1	Estakhri et al	04/24/2001					
_	A13	6,202,138	B1	Estakhri et al	03/13/2000					
	A14	6.182,162	81	Eştakhri çt al	01/30/2001					
	A15	6,181,116	B1	Meehan et al.	01/30/2001					
- 	A16	6,173,362	B1	Yoda	01/09/2001					
	A17	6 151,247		Estakhri et al.	11/21/2000					
	A18	6,145,051	-	Estakhri et al	11/07/2000					
	A19	6.141,249	+	Estakhri et al.	10/31/2000					
	A20	6,134,151		Estakhn et al	10/17/2000					
	A21	6,134,145	 	Wong	10/17/2000					
	A22	6,128,695	+	Estakhri et al.	10/03/2000					
	A23	6 125,435	1	Estakhri et al	09/26/2000					
	A24	6.125,424	-†	Komatsu et al	09/26/2000	<u> </u>				
	A25	6,122,195	 	Estakhri et al	09/19/2000	<u> </u>				
	A26	8,115.785		Estakhri et al.	09/05/2000					
_	A27	6,097,666		Sakui et al	08/01/2000					
	A28	6,081,878	<u> </u>	Estakhri et al.	06/27/2000	· · · · · · · · · · · · · · · · · · ·				
	A29	6,081,447		Lofgren et al.	06/27/2000					
	A30	6,072.796	1	Christensen et al.	08/06/2000	<u> </u>				
	- A31	6,055,188		Takeuchi et al	04/25/2000					
	A32	8.055,184	- 	Acharya et al.	04/25/2000					
	A33	6.047.352		Lakhani et al.	04/04/2000	<u> </u>				
-	A34	6.040,997		Estakrhi	03/21/2000	<u> </u>				
	A35	6,035,357		Sakaki	03/07/2000					
	A35	6,034,897		Estakhri et al	03/07/2000					
	A37	6,026,027	+	Terrell, II et al	02/15/2000					
-	A38	8,028,020		Matsubara et al.	02/15/2000	 				
- -	A39	6,021.408	+	Ledain et al.	02/01/2000					
	A40	6,011,323	+	Camp	01/04/2000	 				
	A41	6,011,322		Hiraka	0170472000					
	A42	5,991,849	+	Yamada et al	11/23/1999	 				
	A43	5,987,573		Hiraka	11/18/1999					

To:USPTO

.bstitute for !	form 1449A/PTC	1			Complete if Known	
			Application Number	09/500,755		
INF	FORMATI	ON DISCLOSI	Filing Date	02/08/2000		
ST	ATEMEN	T BY APPLICA	First Named Inventor	Mehdi Asnaashari		
				Group Art Unit	2851	
	(use as man	y sheets as necessary)	Examiner Name	Unknown		
Sheet	2	of	6	Attorney Docket Number	38979-71US	
ME	A44	5,987,563		Itoh et al	11/16/1999	
<u></u>	A45	5,986,933	1	Takeuchi et al.	11/16/1999	
	A46	5,966,727	<u> </u>	Nishino et al	10/12/1999	_
\neg	A47	5.959.926	†	Jones et al	09/28/1999	 -
	A48	5,956,473	1	Ma et al.	09/21/1999	
	A49	5,953,737		Estakhri et al.	09/14/1999	
	A50	5,937,425		Ban	08/10/1999	
	A51	5,935.971		Harari et al	08/10/1999	
	A52	5,933,846		Endo	08/03/1999	
	A53	5,933,368		Ma et al.	08/03/1999	
	A54	5.930.815		Asnaashari	07/27/1899	
	A55	5,928,370		1	07/27/1999	
	A56	5,920,884		Jennings, III et al.	07/06/1999	
	A57	5,909,586 5,907,856	· ·	Anderson Estakhri et al.	06/01/1999 05/25/1999	
	A59	5,901,086	<u> </u>	Wang et al	05/04/1999	
	AG0	5,890,192	ļ	Loo et al.	03/30/1999	
	A61 -	5,862,099		Gannage et al.	01/19/1999	
	A62	5.860,124		Matthews et al	01/12/1999	
	A63	5,860,083		Sukeawa	01/12/1999	
	A64	5,847,552		Brown	12/08/1998	
	A65	5.845.313		Estakhri et al.	12/01/1998	
	A66	5.835,935		Estakhri et al	11/10/1998	
	A67	5,831,929	 	Manning	11/03/1998	
	A68	5,822,781	 	Wells et al	10/13/1998	
	A69	5,822,252	- 	Loo ot al	10/13/1998	
	A70	5.822.245	<u> </u>	Gupta et al.	01/13/1998	
	A71	5,018,781	•	Estakhri et al.	10/06/1998	
	A72	5,809,560		Schneider	09/15/1998	
	A73	5,809,558		Matthews et al	09/15/1998	
	A74	5,809,515		Kaki et al.	09/15/1998	
	A75	5,802,551		Komatsu et al	09/01/1998	
	A76	5,799,168		Ben	08/25/1998	
	A77	5,787,484		Norman	07/28/1998	
	A78 A79	5,787,445		Daberko Takonebi et el	07/28/1998	
	A/9	5.781,478 5.773,901	_	Takeeuchi et al	07/14/1998 06/30/1998	
	781	5,768,195	 	Nakamura et al.	06/16/1998	
_	A82	5.768,190	 	Tanaka et al.	06/16/1998	
	AB3	5,761.117	 -	Uchino et al.	06/02/1998	
	A84	5,758,100	 	Odisho	05/25/1998	
	A85	5,757,712	 	Nagel et al	05/26/1998	
	A86	5,754,587	 	Norman	05/19/1998	
	A87	5,745.418	+	Ma et al	04/28/1998	
	VBB	5,734.567	 	Griffiths et el	03/31/1998	
4 -	A89	5,723,990	 	Roohparvar	03/03/1998	

Substitute for	form 1449A/PTO)	Complete if Known			
			Application Number	09/500,755		
INF	ORMATIC	ON DISCLOSU	IRE	Filing Date	02/08/2000	
ST	ATEMEN	T BY APPLICA	First Named Inventor	Mehdi Asnaashari		
				Group Art Unit	2851	
	(use as many	sheets as necessary)		Examiner Name	Unknown	
Sheet	3	of	6	Attorney Docket Number	38979-71US	
JTW	A90	5,648,929		Miyamoto	07/15/1997	
	A91	5,611,067		Okamoto et al.	03/11/1997	
	A92	5,603,001	+	Sukegawa et al	02/11/1997	
	A93	5,602,987		Harari et al.	02/11/1997	
	A94	5,598,370		Niisima et al.	01/28/1997	
	A95	5,592,415		Kato et al.	01/07/1997	
	A96	5,581,723		Hasbun et al	12/03/1996	
	A97	5,579,502		Konishi of al	11/26/1996	
	A98	5,572,466		Sukegawa	11/05/1996	
	A99	5,552,698		Tai et al.	09/03/1996	
	A100	5,544,356		Robinson	08/08/1998	
	A101	5,541,551	Ī	Brehner et al.	07/30/1996	
	A102	5,530,938		Akasaka et al	06/25/1996	
	A103	5,530,828		Kaki et al	06/25/1995	
	A104	5,530,673		Tobita et al.	06/25/1996	
	A105	5,524,230		Sakaue et al.	06/04/1998	
	A106	5,523,980		Sakui et al.	06/04/1996	
	A107	5.519,847		Fandrich et al.	05/21/1996	
	A108	5,515,333		Fujita et al	05/07/1998	
	A109	5,513,138		Manabe et al	04/30/1996	
	A110	5,490,117	ļ.,	Oda of al	02/06/1996	
	A111	5,479.638		Assar et al.	12/26/1995	
	A112	5,473,765		Gibbons et al.	12/05/1995	
	A113	5,465,338		Clay	11/07/1995	
	A114	5,465,235 5,431,330		Miyamoto	11/07/1995 07/11/1995	
	A116	5,430,682		Wieres	07/04/1995	
	A117	5,430,682		Ishikawa et al	06/05/1995	
	A118	5,418,752		Harari et al.	05/23/1995	
	A119	5,406.527		Honma	04/11/1995	
	A120	5,404,485	 	Ben	04/04/1995	
	A121	5,388,083	 	Assoret al	02/07/1995	
	A122	5,384,743	 	Rouy	01/24/1995	
	A123	5,382,839	 	Shinohara	0171771995	
	A124	5,381,539	 	Yanai et al	01/10/1995	
	A125	5,371.702	 	Nakai et al	12/08/1994	
	A126	5,365,127	 	Manloy	11/15/1994	
	A126B	5,359,569	 	Fujita et al.	10/25/1994	
	A127	5,341,341	 	Fukazo	08/23/1994	
	A128	5,341,339	†	Wells	08/23/1994	
	A129	5,341,330	 	Wells et al	08/23/1994	
- / -	A130	5,329,491	 	Brown et al.	07/12/1994	

To: USPTO

Examinar Initials*		Foreign Patent Document			-	Opto of Publication of	Pages Columns Lines	
	Cite No '	Count y Code	Number*	Kind Cnde ^s (if known)	Name of Patenties of Applicant of Cited Document	Cited Decument MM-UD-YYYY	Where Relevant Passages or Relevant Figures Appadr	₹*
JW	B1		0 663 636	A1	Sun Microsystems, Inc.	07/19/1995		
1	822		0 6 19 541	A2	Hitachi, Lld., Hitachi Keiyo Engineering Co., Lld, Hitachi ULSI Engineering Corp	10/12/1994		
	B 3		0 617 363	A2	Sundisk Corporation	09/28/1994		
	84	1 1	0 613 151	A2	Kabushiki Kaisha Toshiba	08/31/1994		
	85		0 522 780	A2	International Business Machines Corporation	01/13/1993		
	B6		0 522 780	В1	International Business Machines Corporation	01/13/1993		
$-\Lambda$	B7		0 392 895	A2	Sundisk Corporation	10/17/1990		

Substit	tute for form	1449A/PTO		Complete if Known				
				Application Num	<u>ber</u>	09/500,755 02/08/2000		
IN	FORM	ATION DISCLO	SURE	Filing Date				
		ENT BY APPLI		First Named Inventor		Mehdi Asnaashari		
				Group Art Unit		2851		
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	 '	5 of	6	Attorney Docket	Mumber.	38979-71US		
She	- 1 NO T	1 2 304 428	-	ubishi Denki Kabushiki	03/19/199			
Th	<i>'</i>	2 291 990	Kais	ha lory Corporation	02/07/199	16		
1	B9 B10	2 251 323		Corporation	07/01/19			
1	B11	9-147581	Hitai	chi Co Ltd , Hitachi	06/06/199	37		
	B12	59-92483	VLS	l Engineering Corp	05/28/19	34		
\vdash	B13	8-69696	Tosl	niba Corp.	03/12/19	96		
\longrightarrow	B14	8-18018	1 1	hiba Corp	01/19/19	96		
1	B15	7-93499	Hita VLS	chi Co , Ltd , Hitachi I Engineenng Corp., chi Tobu	04/07/19	95		
		ļ	Hita	chi Tobu niconductor Co , Ltd.				
+	B16	7-84871	1 3411	HOWHANDER TO THE PARTY OF THE P	03/31/19			
	B17	7-334996			12/22/19			
	B18	7-311708	Fuji K.K Ltd.	Film Micro Device . Fuji Photo Film Co	11/28/19	95		
	B19	7-235193	Liu.		09/05/19	95		
	B20	7-141258			06/02/19			
1	B21	7-114499			05/02/19			
	B22	6-4399			01/14/19			
	B23	6-36578		iy Kabushiki Kaisha	02/10/19			
	B24	6-266596	- NE	ichi Ltd	05/27/19			
	B25	6-149395 6-132747		tsu Ltd., Fujitsu VLSI	05/13/19			
			Ltd		05/13/19			
	827	6-131889		hiba Corporation	05/06/19	- ·		
L	828 829	6-124175	1 1	агр Согр	05/06/19			
	B30	5-282883	1 Li_	shiba Corp	10/29/19			
	831	5-128877	1 1	subishi Electric Corp	05/25/19	993		
	832	4-57295	- NE	C Corporation	02/25/19	992		
	B33	4-278297		shiba Corp.	10/02/19			
	B34	4-258284		Photo Film Co., Ltd	09/24/19			
	B35	4-254994	To	shiba Corp	09/10/19	• • • • • • • • • • • • • • • • • • •		
	B36	RM-37697		shiba Corp	02/21/11 10/09/11			
	B37	3-228377	1 1	snioa Corp pon Denki Kabushiki	05/3119			
	B38	1-138694	Ka	isha				
	B39	WO 94/20906		Systems Ltd. 3. Parkhomenko, S.B.	09/15/1			
	B40	SU 1686449	A2 N.C	zelkov, V Yu Lozbenev d S.S. Karpenko	10/23/1			
	841	SU 1573458	A2 N.0	3. Parknomenko, S.B., zelkov, V.Yu. Lozbenov d.S.S. Karpenko G. Parkhomenko, V.Yu. zbenev, V.G. Chemysold S.B. Kozelkov	06/23/1	990		
	842	80 1541619	AI N.SK	o. Semenov, N M Iorov, A.I. Zhdanov. V Kukhar and V I Itanenko	dzidiri			
	B43	SU 1515164	A1 IV	. Dementiev and A.S	10/15/1	989		
	B44	SU 1408439	A1 V.	V. Merkul, I Yu. Manukir d M.N. Gurevich G. Parkhamonko, V. Yu	07/07/1			
	/ B45	SU 1388877	I i Lo	G Parkhomonko, V. Yu zbenev and A P iprovskij	. 04/15/1	988		

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		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Indials* /		Include name of the author (in CAPITAL LETTERS) title of the griph appropriate), title of the dum (book, magazine, journal, serial sympothem coulding, circ.) date page(s) volume-issue number(s), publisher city analist country where published	12
WE	C1	MENDEL ROSENBLUM and JOHN K. OUSTERHOUT. The Design and Implementation of a Log-Structured File System. article. 1991, 15 pgs. Birkstey, USA	
1010A	C2	BRIAN DIPERT and MARKISI LEVY Designing with Flash Memory, basis, April 1994, 445 pgs. Annahonks, Sain Diego, USA	l

С

Substitute for form 1449A/PTO							Complete if Known					
	INFORMATION DISCLOSURE						Application Number	09/500,755				
1	NF	ORM	IATION I	DIS	CLOSU	JRE	Filing Date	02/08/2000				
	ST#	ATEN	MENT BY	A	PPLICA	NT	First Named Inventor	Mehdi Asnaashari				
							Group Art Unit	2851				
	(use as many sheets as necessary) Examiner Name Unknown											
Sh	eet	ļ., .	6	of	6		Attorney Docket Number	38979-71US				
JI	W	C3		SCILI	NCE FORUM, INC	. I-tash Memu	у Зутровит 95 кутровит 1985, 13 рдк	Hango, Brankyo-ku Tokyo				
		C4	ROSS S F	INLAY3	DN and DAVID R	CHFRITON, A	n Extended File Service Exploiting Write-Onc	o Storage, article, 1987 10 pgs ACM				
		C5	JASON GAIT, Th	Optical	File Cabinet. A Ra	andom Access	File System for Write Once Optical Disks or	ticle, June 1988, 12 pgs Bauvarton Oragon				
		C 6					unt, book, 1995, 19 pgs. Springer-Verlag Ba					
		C7	SAPE J MULLE	NDER a	M ANDREWS TA	ANFNRANW' V	Distributed File Service Based on Optimistic ACM	Concurrency Control article 1985 12 pgs	_			
		C8	НІНОВНІ НАКАН	NUƘA. J			MAMIYA and YUSHIHISA IWATA A Noval Se talum, 1995, VLSI Circulta Digesi of Technica		<u>. </u>			
		Ca			JUNICHI MIYAMU	TO KENICHO	REHINGOY ATAW ACININGOY, AYIMAMI ACINAMI AND MANAMINA SHEEL AND MANAMINA AND MANAMI	IUGILIRA and HIDEKO OODAIRA A Noval				
		C10	TAKAAKI NOZAI	a. Tosh	IIAKI TANAKA. YO	SHIRO KIJIYA	EITA KINOSHITA. TATSUO TSUCHIYA an	YUTAKA HAYASHI. A 14/10 EEPROM WITI				
		C11					optication, enticle, 1991, 5 pgs., Journal Of St Architecture and Parallel Processing Jook. 1					
		C12	WALTER LANTI	nd DEA	N MCCARRON SI	LEV OUT IO OUT		thide. 1990; 7 pgs. Vol. 15. No. 12. MnGrew-				
		C13	RON WILSON	INTECR	ATED CIRCUITS.	1-Mbit flash m	Hiff, knc., US memorios sook thour role in system design, article, March 1, 1989, 2 pgs, No.5, Tutes, OK					
		C14			EP EBERHARD	T JR RADOS	DC GUTEMAN G SAMACIJISA R.D. NOMAN M MOFIDI WILEE Y FONG A MIHNEA. OSEVICH K.R. STILES, R.A. KOJILER C.W. I FUNG AND T.J. MULROONEY SOOD SMD F					
		C15	STEV	ENH LI			ilek Applications, symposium, 1992, 2 pgs., Mountain Viow, CA -reprogrammable memories, article. January 3, 1991, 12 pgs., FDN, Gircle No.12					
		C16					Magnetic VS Optical Store Data in a Flash latticle 1990 7 pgs. Vol. 15, No. 12. McGraw- Hill, Inc., US					
		C17					er Architecture and Paratiel Processing, book, 1984, McGraw-Hill Inc. 2 pgs. US.					
		C18					reprogrammable memorice, article, January 3, 1991, 12 pgs . EDN. Circle Nu 12					
		C19				October 1993,	N MARSM, Operationg System Implications of Solid-State Mediae Computers, article, 7 pgs iD, Workshop on Workstation Operang Systems					
		C20	MICHAI	EL WU 3	ING WILY ZWAENE	EPOEL. A Non	Volatile. Main Mornory Storage System, 12 p	gs 1994, ACM, Sun Jose, CA USA				
		C21				igina of flashi c	A densities: evailable with a choice of features, flesh memories are tending homes in many and on the unterences between NAND and NOH lissh memories), article May 16, 1984, 9 strong Design, v.42, n.10. The Gale Group					
		C22	Sensury Senso	onductor	°a KM29V32000 T	ements up ente llest:" niertiury"	inte (Intel's 28f4006V-120 and 28f0046V-120. Almel's ATZ96V010 and ATZ96V020 and my"devase)/Froduct Amountament) isrticle. Merch 13, 1985 4 pgs. Electronic News v 41 n.2056, The Gale Group					
		Ç23	SAM WERER 1	lash m		pgs Flocin	onic Engineering Times, n 911, CMP Mertia	formate blocking to "leath" artists 7/22/96, 0				
		C24			T		MEMORY (NON-VOLATILE) 1995 Data Bu	ok .				
		C25	STAN BAKER	BUT IN			WARE 80FTWARE CHANCES Flosh dosi extroring Engineering Times, 1990, N.819, 41,		, 			
<u> </u>	T	C26	TOSHIBA TOSHIBA MOS DIGITAL INTEGRATED				CIRCUIT SILICON GATE CMOS (TCARNSA	120C) 3/21/2001 -13 pgs . Data Book				
_	1	C27	TOSHIE	A CORP	ORATION SMIL	(6mortmorila tr	nterfaco Library) Hamtware Edition Version 1 (00, July 1, 2000, 36 pgs. Date Book				
	\top	C28	TOSHIRA, TOSHIRA MOS OIGITAI, INTEGR			ITAL INTEGRA	ATED CIRCUIT SII ICON GATE (TCS0512FT), 0/05/200 (=40 pgs Data Book "				
	T	C29	į.				•	•				
		C30					CIRCUIT SILICON GATE (TC58DVG02A1					
<u> </u>		C31	!				ATED CIRCUIT SILICON GATE (TH58100IT					
		C32					USA	ce. June 22-24, 1993. Linktdaum Heighte, MD				
		C33	TOSHE	A CORF		•	nerfece Library) Softwere Edition Version 1 0					
<u> </u>		C34		. n= =			MÔRY (NON-VÔLATILE), 1995-279 pgp. Da					
1	١V	C35	DAN AUCLAIR Optimal Solid Stoto Diak Architoruro For Portobio Computers, symposism, July 9, 1991. 7 pgs. Sunflick Corporation									

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Examiner Signature	aron	Why	Date Considered	1291	018	
	7 1	V				

*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered include body of this form with next communication to applican

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